



U.S. DEPARTMENT OF  
**ENERGY**

**Deputy Designated Federal Official  
(DDFO) Presentation  
Portsmouth EM  
Site-Specific Advisory Board  
May 6, 2010**



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# Agenda



- American Recovery and Reinvestment Act (ARRA) Projects Update
  - ❖ X-533 Switchyard Demolition
  - ❖ X-701B Groundwater TCE Source Removal
  - ❖ X-633 Cooling Tower Complex D&D
  - ❖ Uranium Management Center
  - ❖ X-760 Chemical Engineering Building D&D
- Director's Final Findings and Orders for D&D Project (DFF&O)
- Forthcoming SSAB Discussions and Upcoming Events



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# X-533 Switchyard Demolition



**Pictured is the monthly progress at the X-533 project as viewed from south side of the X-611 Water Treatment Plant**



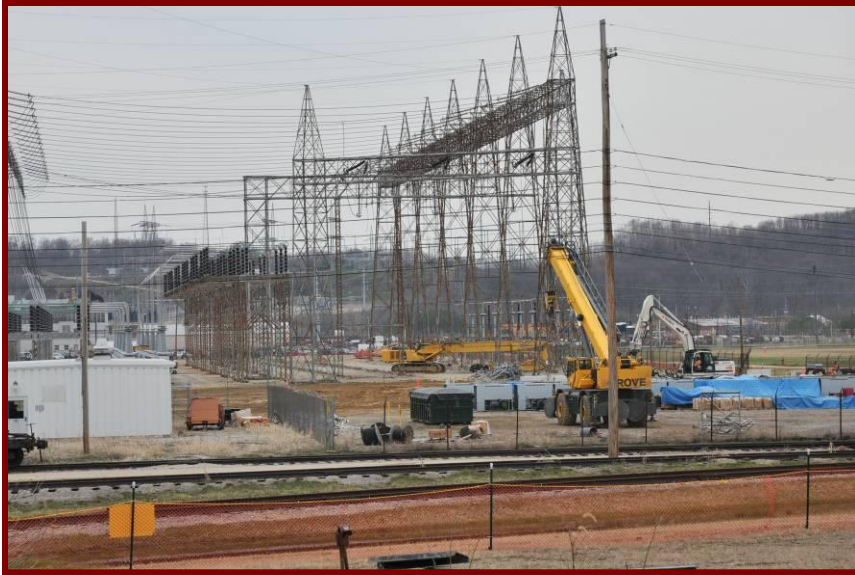
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# X-533 Switchyard Demolition



- Demolished maintenance building (X-533C) structure and slab
- Asbestos abatement substantially completed
- Demolished 79 of 160 Towers; Removed 245 of 850 Tower Foundations



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# X-701B Groundwater TCE Source Removal



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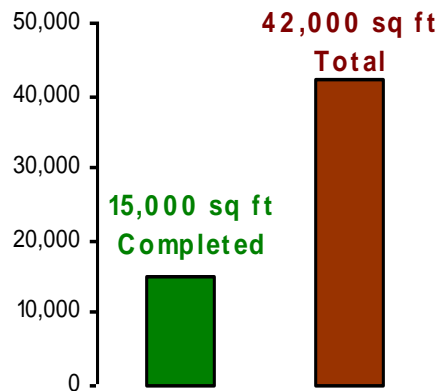
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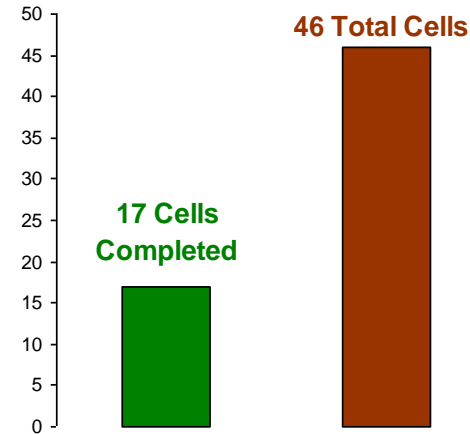
# X-701B Groundwater TCE Source Removal



**X-701B Groundwater TCE Source  
Removal Soil Treated**



**X-701B Groundwater TCE Source  
Removal Cells Treated**



- Project mixes sodium persulfate oxidant directly into 42,000 sq ft source area of TCE contaminated soils; oxidant chemically breaks down contamination; application to depth of 30 ft



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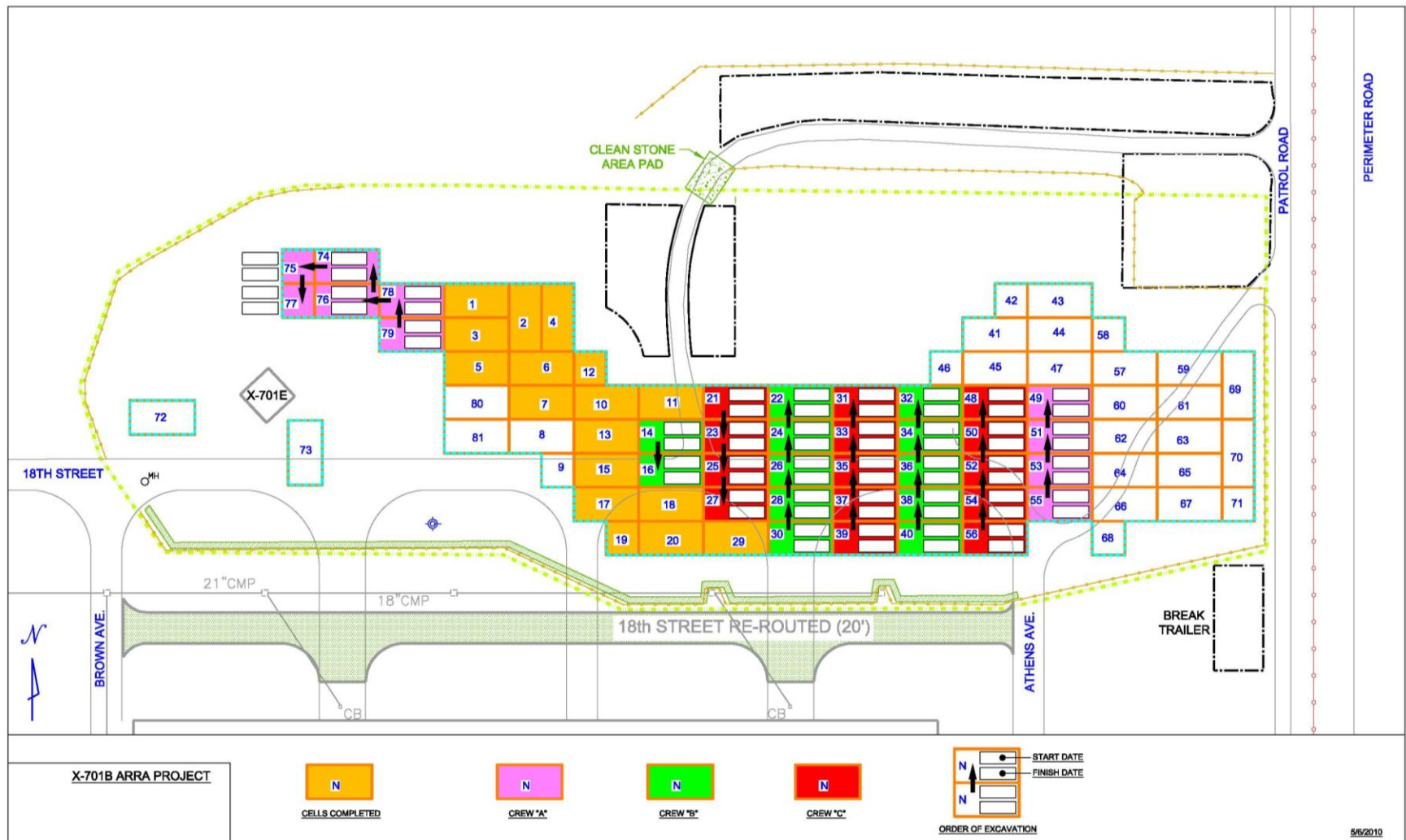
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# X-701B Groundwater TCE Source Removal



## X-701B Cells



# X-633 Cooling Tower Complex



Photo taken March 23, 2009

**Pictured is the monthly progress at the X-633 project as viewed from south side of the X-611 Water Treatment Plant**

- Tower C and D have been demolished
- Waste being disposed at the Pike County Landfill



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# X-633 Cooling Tower Complex



Demolition of Tower C

April 22, 2010



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# X-633 Cooling Tower Complex



- Demolition of Tower D - April 19, 2010



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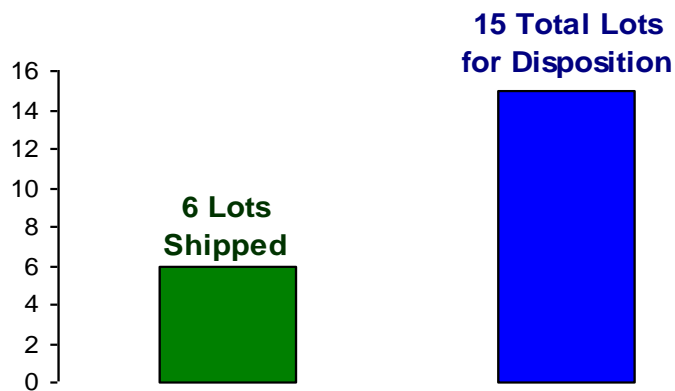
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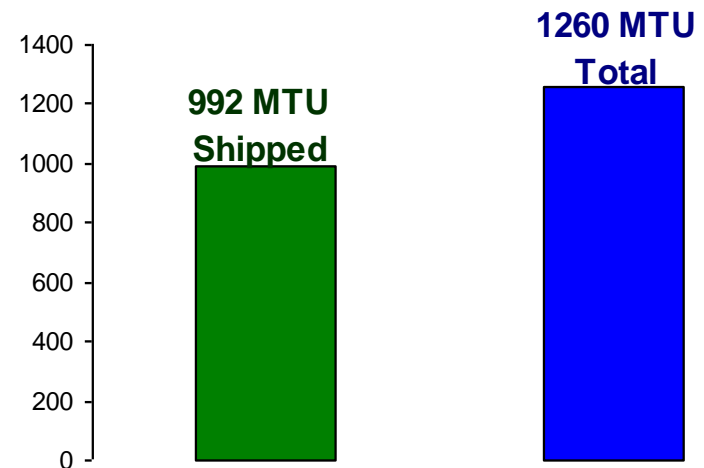
# Uranium Management Center



Uranium Management Center  
Lots for Disposition



Uranium Materials Center  
Metric Tons of Uranium for Disposition



- Repackaging/disposition of surplus uranium material
  - ❖ ~1260 metric tons total
- 6 of 15 Lots dispositioned
  - ❖ ~ 992 metric tons shipped to Nevada Test Site



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# Uranium Management Center



September 2009  
Before T-Hoppers  
Shipped



April 26, 2010  
After T-Hoppers  
Shipped



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# X-760 Chemical Engineering Building D&D



- X-760 Action Memorandum and Responsiveness Summary was conditionally concurred by Ohio EPA on May 4, 2010
- Asbestos abatement completed
- Phase 1 utility isolation completed on March 1, 2010



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# X-760 Chemical Engineering Building D&D



- Loose equipment 90% completed



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# Director's Final Findings & Orders



- *Director's Final Findings and Orders for Removal Action and Remedial Investigation and Feasibility Study and Remedial Design and Remedial Action for the Portsmouth Gaseous Diffusion Plant (Decontamination and Decommissioning Project (hereinafter DFF&Os)*
- Issued April 13, 2010
- Enforceable agreement between Ohio EPA and DOE governing D&D of the Portsmouth GDP
- DOE entered into DFF&Os under DOE authorities, including CERCLA and Atomic Energy Act; DFF&Os recognize DOE as CERCLA Lead Agency authority
- DFF&Os found on web at:
  - ❖ <http://www.epa.ohio.gov/portals/30/remedial/docs/dffo/DOEPort.pdf>



# Director's Final Findings & Orders



- Requirements:
  - ❖ Engineering Evaluation/Cost Analysis (EE/CA) and removal actions for certain structures and buildings
  - ❖ Remedial Investigation /Feasibility Study (RI/FS) and Remedial Design/Remedial Action (RD/RA) for certain process buildings and complex structures
  - ❖ Site-wide waste disposition evaluation
- Evaluation of D&D waste disposition, including consideration of on-site cell, under CERCLA
- Removal of facilities under CERCLA
- Flexibility to “bundle” facilities; minimize documents and maximize use of resources for actual cleanup
- Milestones focus on major project activities at identified key points of project execution
- Robust public participation in the CERCLA decisions





# *Forthcoming SSAB Discussions and Upcoming Events*



- Next SSAB Subcommittee Meetings (FLU and D&D) are next Tuesday evening, May 11, 2010
  - ❖ Future Land Use
    - Land Use Options
  - ❖ D&D Committee
    - Waste Disposition Options
- Next SSAB Board Meeting – July 1, 2010
- Next public update meeting being scheduled for June 2010



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